



D. Kostanich
UNITED STATES DEPARTMENT OF COMMERCE
Bureau of the Census
Washington, DC 20233-0001

May 30, 2000

DSSD CENSUS 2000 PROCEDURES AND OPERATIONS MEMORANDUM SERIES R-32

MEMORANDUM FOR Maureen Lynch
Assistant Division Chief, Coverage Measurement Processing
Decennial Statistical Studies Division

David Whitford
Assistant Division Chief, Statistical Program Management
Decennial Statistical Studies Division

From: Donna Kostanich DK
Assistant Division Chief, Sampling and Estimation
Decennial Statistical Studies Division

Prepared by: RDC JEF
Ryan Cromar and James Farber
Sample Design Team
Decennial Statistical Studies Division

Subject: Accuracy and Coverage Evaluation Survey: Large Block Cluster
Subsampling Approval and Summary of Results

I. INTRODUCTION

The Sample Design Team approves the results of the Census 2000 Accuracy and Coverage Evaluation (A.C.E.) large block cluster subsampling operation for release to persons who need this information to carry out A.C.E. operations. These results include the 76 relisted clusters. The information reflecting the large block cluster subsampling operation is included in the sample design file, subsampled preliminary enhanced list, and large block cluster subsampling segment file. Approvals of large block cluster subsampling have previously been given since this was a continuous operation. The intent of this document is to formalize and distribute the final results.

The A.C.E. survey will be used as a quality check for Census 2000. An independent list of addresses was developed in a sample of block clusters previously selected under the Integrated Coverage Measurement (ICM) 750,000 housing unit design. Results of the listing sample selection are documented in reference 1. Another step needed to attain the A.C.E. sample from the ICM sample is the A.C.E. reduction, in which the listing sample block clusters are subsampled. Results of the A.C.E. reduction are documented in

reference 2. The final step before large block cluster subsampling is small block cluster subsampling, in which the number of small block clusters in the A.C.E. sample is reduced. Results of small block cluster subsampling are documented in reference 3. Finally, large block cluster subsampling is done to obtain the A.C.E. interview sample.

During large block cluster subsampling, if a non-American Indian Reservation (AIR) block cluster has 80 or more A.C.E. housing units on the preliminary enhanced list (PEL), then the housing units in the cluster are subsampled by forming segments of adjacent housing units and selecting segments for the A.C.E. sample. Sampling rates were determined within each A.C.E. reduction stratum and state so that 1) there would be close to equal weighting between medium and large block clusters within a reduction stratum in a state and 2) previously computed state targeted housing unit sample sizes would be attained to the extent possible. The results of creating the sampling rates are documented in reference 4. The large block cluster subsampling process is documented in reference 5.

Section II of this memorandum and its attachments contain summary statistics of the operation. The final A.C.E. sample is contained in the output files described in Section III. Any questions regarding large block cluster subsampling should be directed to Ryan Cromar (301-457-1636), James Farber (301-457-4282), or Deborah Fenstermaker (301-457-4195) of the Decennial Statistical Studies Division.

II. RESULTS

For the overall United States, 11,303 block clusters with 300,913 housing units are in the A.C.E. sample after large block cluster subsampling, plus 499 clusters and 13,736 housing units in Puerto Rico. The housing unit totals are smaller than the targeted totals. The targeted housing unit totals are 305,092 for the United States and 14,687 for Puerto Rico as documented in reference 6. Note that the national target is higher than the commonly used 300,000 housing unit figure, for reasons discussed below. The results of the A.C.E. sample after large block cluster subsampling for each state and the nation are summarized in Table 1 in Attachment 1. Most states have actual interview housing unit totals that are less than the targeted state totals. Figure 1 shows the distribution of the interviewing workload in each block cluster.

The sample target was set higher than 300,000 housing units to allow for the uncertainty inherent in the status of each A.C.E. housing unit, which is updated throughout the various phases of A.C.E. sampling and processing. The target for each reduction stratum and state was determined using independent list (IL) housing unit counts, while the actual sample was selected from the PEL housing units. A number of factors could cause the PEL housing unit counts to differ from the IL housing unit counts. The IL was the input to housing unit matching and follow-up, while the PEL was the output. During housing unit matching and follow-up, IL housing units could be removed from the A.C.E. if they

were found not to exist, to be commercial addresses, or for other reasons. If a cluster was relisted, the housing unit counts could also be different. The sample targets excluded housing units with a status of future construction since these units were deemed more likely to be found not to exist during housing unit follow-up and thus would not be a part of the large block cluster subsampling universe. However, the targets include all other housing unit statuses, some of which may have been removed from the A.C.E. during housing unit follow-up. For instance, housing units with a status of under construction or unfit for habitation were still considered in determining the sample target. Even though some housing units that were previously listed as future construction were completed between independent listing and housing unit follow-up, more housing units with the other housing unit statuses were reclassified as non-housing units during follow-up. Therefore, the net effect for most states is that the actual housing unit sample is smaller than targeted. However, the final interviewing workload still achieved the original 300,000 housing unit total because the targets were set higher to allow for the net loss in the number of A.C.E. housing units due to housing unit follow-up.

There were 11 states where the interview housing unit sample is larger than targeted. From Table 1, these states are Arkansas, the District of Columbia, Idaho, Maine, Massachusetts, Montana, Nevada, South Carolina, Utah, Vermont, and Wyoming. Some clusters in these states were targeted to be subsampled because the IL had 80 or more housing units. However, since the PEL housing unit count was less than 80, all of the housing units in these clusters were retained. That often meant an increase in the number of housing units that would be interviewed in those clusters. Another reason for the larger sample is that some very large block clusters had two segments selected. For instance, South Carolina had a cluster with a total PEL count of 3,034 and two of the seven segments were selected from that cluster. If one segment had been selected from that cluster, then the actual housing unit sample in South Carolina would have been smaller than targeted.

The sampling weights after large block cluster subsampling are summarized with tables and figures in Attachment 2. Figure 2 shows the distribution of the cluster weights. About 94 percent of the block clusters have weights that are less than 700. In general, the weights over 700 are from small block clusters, which usually contain few housing units. This is particularly true for those clusters with weights over 1000. As shown in Figure 3, the distribution of housing unit weights, more than 99 percent of the housing units in the interview sample have weights that are less than 700.

The remaining figures in the attachments are boxplots that present the following statistics. The median, or the 50th percentile, is the white horizontal line inside each box. This means 50 percent of the clusters have weights below the median, and 50 percent have weights above. The 25th and 75th percentiles are the lower and upper borders, respectively, of the shaded boxes. The upper and lower whiskers represent either the extreme values of the distribution or the median +/- 1.5 times the interquartile range

(IQR), whichever lies closer to the median. The IQR is the difference between the 75th and 25th percentiles. Lines beyond the whiskers represent potential outlier weights. Under a normal distribution, about 99.3 percent of the cluster weights would fall between the whiskers. The mean cluster weight is represented by a horizontal dashed line running across the boxplots. Each mean is calculated independently based on the distribution depicted in the boxplots. For example, in Figure 7, the mean is based only on the distribution of large cluster weights. An “H” symbol on a boxplot represents a point estimate that has no variation.

Figure 4 has boxplots showing the distribution of weights by sampling stratum. This figure shows that weights from small block clusters are generally higher than weights from medium and large clusters, which is acceptable because there are usually fewer housing units in small clusters. Also, the boxplots show there is relatively equal weighting between medium and large block clusters. One can also see these patterns for each state in Figures 5, 6, and 7, where boxplots show the size and distribution of weights by state for small, medium, and large block clusters, respectively. More details of all the weights from medium and large block clusters are summarized in Table 2. Weights from small block clusters are summarized in Table 3.

For the most part, block clusters went through expected paths during the A.C.E. sampling process. However, since updated measures of size were available at each phase of sampling, the number of housing units in a cluster could change from phase to phase, which would occasionally send clusters down uncommon paths. For instance, Table 2 shows one block cluster in Washington State that was a medium block cluster based on the early census address list and on the preliminary IL but had 80 or more housing units on the PEL. Therefore, the cluster was subsampled in large block cluster subsampling and received a much greater weight than expected. Similarly, a number of clusters were large based on the early census address list and on the preliminary IL but had fewer than 80 housing units on the PEL. These clusters were not subsampled in large block cluster subsampling and received smaller weights than expected. This also caused an increase in sample size in some states.

The weights from the AIR clusters are plotted in Figure 8 and presented in Table 4. Note that Figure 8 includes only those states that have AIR clusters. Generally, the AIR weights are lower than non-AIR weights to ensure accurate AIR population estimates. The AIRs have a separate listing sample of 355 medium and large clusters with no further reduction or subsampling. Therefore, the plot shows no weight variation for AIRs in each state. The small AIR clusters in Table 4 were part of the general small cluster sampling stratum and thus have higher weights than medium and large AIR clusters. The weights from block clusters in Puerto Rico are in Table 5.

Figure 9 shows boxplots combining the cluster weights from the four sampling strata within each state. Note that small population states (e.g., Alaska, Delaware, Hawaii,

Rhode Island, South Dakota, Vermont) have comparatively smaller weights than other states. Because the minimum state sample size is 1800 housing units, the smaller states have larger samples than they would have received under sampling with probability proportional to size.

Figure 10 presents the medium and large cluster weights for the five major reduction strata: minority, low inconsistent, high inconsistent, consistent, and medium stratum jumpers. One goal of the A.C.E. sample design was to reduce weights for clusters that have high concentrations of traditionally undercounted population groups and for clusters that may be more likely to have coverage errors. As shown in Figure 10, the weights for minority clusters are generally lower than the consistent stratum weights, as are the weights for the two inconsistent reduction strata, where coverage problems might occur. Similarly, the weights for medium stratum jumper clusters are comparatively low. All stratum jumper clusters were retained in the A.C.E. medium and large cluster reduction to avoid excessively large weights for these clusters after large block cluster subsampling.

Attachment 3 presents summary statistics for the three major Types of Enumeration Area. Table 6 presents the distribution of A.C.E. interview sample by Type of Enumeration Area. Figure 11 shows that the List/Enumerate clusters generally have smaller weights than the other Types of Enumeration Area, which is by design. List/Enumerate clusters were placed in the high inconsistent reduction stratum and thus were generally retained at higher rates than clusters in the other strata in the A.C.E. reduction because they are not eligible for Targeted Extended Search. But the nature of these areas (e.g., hard to access remote areas) is such that they may be subject to coverage problems. Table 7 in Attachment 4 shows A.C.E. Regional Office (ACERO) cluster and housing unit totals.

III. OUTPUT FILES

An output of large block cluster subsampling is information for the Field Division (FLD) to assist in the planning of person interviewing. Twelve Quattro Pro spreadsheets, one for each ACERO, were provided on diskettes to Neala Stevens of the FLD. Puerto Rico will be included in the Boston ACERO spreadsheet. These spreadsheets are named intRO_2.WB3, where RO is the two-digit ACERO code. Each spreadsheet will contain the following variables in order for each cluster:

- ACERO Abbreviation
- FIPS State Code
- FIPS County Code
- Local Census Office Code
- A.C.E. Cluster Number with Check Digit
- Targeted number of interview housing units as documented in Reference 6
- Actual number of interview housing units

Each spreadsheet is sorted by state, county, and A.C.E. cluster number with check digit. **The information contained in these spreadsheets is confidential and protected by Title 13 of the U.S. Code. Access to this information is administratively restricted to authorized A.C.E. staff.**

IV. REFERENCES

1. DSSD Census 2000 Procedures and Operations Memorandum Series R-16, "Accuracy and Coverage Evaluation Survey: Initial Listing Sample Results," June 25, 1999.
2. DSSD Census 2000 Procedures and Operations Memorandum Series R-23, "Accuracy and Coverage Evaluation Survey: Approval and Summary of Results of the Reduction Sample," January 21, 2000.
3. DSSD Census 2000 Procedures and Operations Memorandum Series R-25, "Accuracy and Coverage Evaluation: Small Block Cluster Subsampling Approval and Summary of Results," February 10, 2000.
4. DSSD Census 2000 Procedures and Operations Memorandum Series R-28, "Accuracy and Coverage Evaluation Survey: Approval and Summary of Large Block Cluster Subsampling Parameter File," March 10, 2000.
5. DSSD Census 2000 Procedures and Operations Memorandum Series R-27, "Accuracy and Coverage Evaluation Survey: Large Block Cluster Subsampling Specifications," March 8, 2000.
6. DSSD Census 2000 Procedures and Operations Memorandum Series R-30, "Accuracy and Coverage Evaluation Survey: Transmittal of Estimated Interview Workload After Large Block Cluster Subsampling," March 21, 2000.

cc: DSSD Census 2000 Procedures and Operations Memorandum Series Distribution List
Statistical Design Team Leaders
A.C.E. Implementation Team
Sample Design Team

Table 1. Summary Statistics for Block Clusters and Housing Units

State	0 Clusters	1-79 Clusters	80+ Clusters	Total Clusters	Total HUs in 1-79 Clusters	Total HUs in 80+ Clusters	Interview HUs in 80+ Clusters	Total Interview HUs	Targeted Interview HUs
Alabama	9	106	46	161	2,947	7,567	1,503	4,450	4,588
Alaska	6	43	21	70	1,152	3,222	587	1,739	1,821
Arizona	59	204	59	322	5,193	15,992	2,474	7,667	7,936
Arkansas	9	77	22	108	1,795	3,742	921	2,716	2,626
California	93	593	415	1,101	18,608	75,684	14,919	33,527	33,744
Colorado	20	95	51	166	2,662	8,545	1,491	4,153	4,169
Connecticut	3	69	39	111	1,971	6,142	1,272	3,243	3,389
Delaware	3	39	24	66	1,077	3,285	693	1,770	1,807
District of C	3	26	29	58	1,106	6,565	1,084	2,190	1,800
Florida	32	298	203	533	8,736	60,079	6,518	15,254	15,361
Georgia	16	167	93	276	4,690	19,518	3,072	7,762	7,859
Hawaii	6	41	121	168	1,156	20,513	2,447	3,603	3,912
Idaho	30	62	15	107	1,653	2,622	342	1,995	1,967
Illinois	16	276	111	403	8,510	18,550	3,855	12,365	12,397
Indiana	10	159	42	211	4,172	7,230	1,773	5,945	6,092
Iowa	17	85	21	122	2,162	3,755	829	2,991	3,057
Kansas	10	101	15	117	2,114	2,948	562	2,666	2,763
Kentucky	42	111	46	199	2,607	9,150	1,372	3,979	4,127
Louisiana	18	63	13	94	3,031	6,520	1,386	4,417	4,476
Maine	4	87	74	165	1,571	16,168	361	1,832	1,886
Maryland	7	144	59	210	2,574	16,168	2,713	5,287	5,353
Massachusetts	16	248	79	343	4,500	9,290	1,893	6,593	6,335
Michigan	22	139	42	203	7,224	11,849	2,756	9,980	10,244
Minnesota	9	91	24	124	3,734	6,898	1,420	5,154	5,159
Mississippi	11	130	47	188	2,332	2,894	602	2,934	3,034
Missouri	31	139	17	197	3,389	11,142	2,120	5,509	5,759
Montana	20	69	11	100	2,146	2,740	654	2,800	2,766
Nebraska	42	33	26	101	1,736	1,328	225	1,961	1,967
Nevada	4	49	23	76	1,156	8,280	973	2,114	2,097
New Hampshire	12	163	83	258	5,369	3,036	609	1,765	1,821
New Jersey	70	117	25	212	2,600	13,892	2,902	8,271	8,341
New Mexico	22	315	290	627	9,301	3,527	988	3,588	3,686
New York	16	165	95	276	4,405	60,082	9,390	18,691	18,974
North Carolina	19	88	14	121	1,780	18,921	3,438	7,843	8,202
North Dakota	14	248	117	379	7,369	1,924	404	2,184	2,230
Ohio	70	131	31	232	7,369	21,621	3,973	11,342	11,530
Oklahoma	52	77	40	169	2,696	5,118	970	3,666	3,761
Oregon	15	329	84	428	1,866	7,272	1,606	3,472	3,494
Pennsylvania	3	46	20	69	9,463	13,801	2,801	12,264	12,331
Rhode Island	13	90	39	142	1,200	2,664	574	1,774	1,805
South Carolina	28	94	14	136	2,505	9,122	1,994	4,499	4,335
South Dakota	13	143	51	207	1,657	2,551	520	2,177	2,273
Tennessee	112	477	204	793	4,071	9,674	1,748	5,819	5,955
Texas	24	56	27	107	13,031	45,385	7,331	20,362	20,764
Utah	5	52	18	75	1,640	4,723	846	2,486	2,460
Vermont	11	145	102	258	1,345	3,024	571	1,916	1,816
Virginia	31	133	68	232	3,765	19,854	3,122	6,887	6,982
Washington	5	51	23	79	4,064	11,650	2,043	6,107	6,301
West Virginia	11	163	37	211	1,108	4,619	1,877	1,925	1,925
Wisconsin	61	65	13	139	4,323	5,660	1,186	5,509	5,705
Wyoming	1,185	6,935	3,183	11,303	1,391	1,568	527	1,918	1,910
United States	29	259	211	499	191,794	613,759	109,119	300,913	305,092
Puerto Rico	1,214	7,194	3,394	11,802	7,803	43,571	5,933	13,736	14,687
GRAND TOTAL					199,597	657,340	115,052	314,649	319,779

Note: HU totals are from the Subsampled Preliminary Enhanced List.

Figure 1. Distribution of Cluster Interview Sample

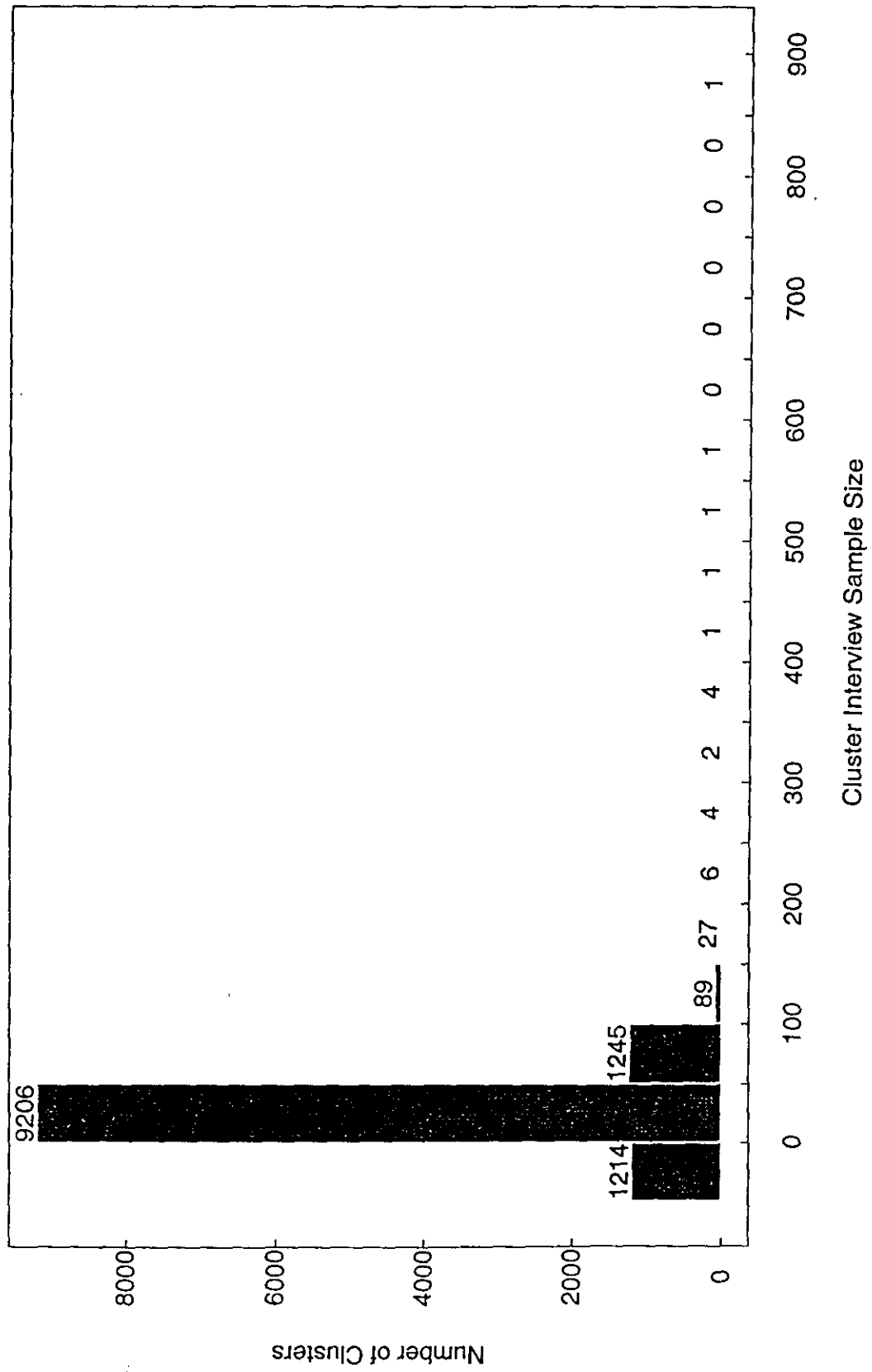


Figure 2. Distribution of A.C.E. Cluster Weights

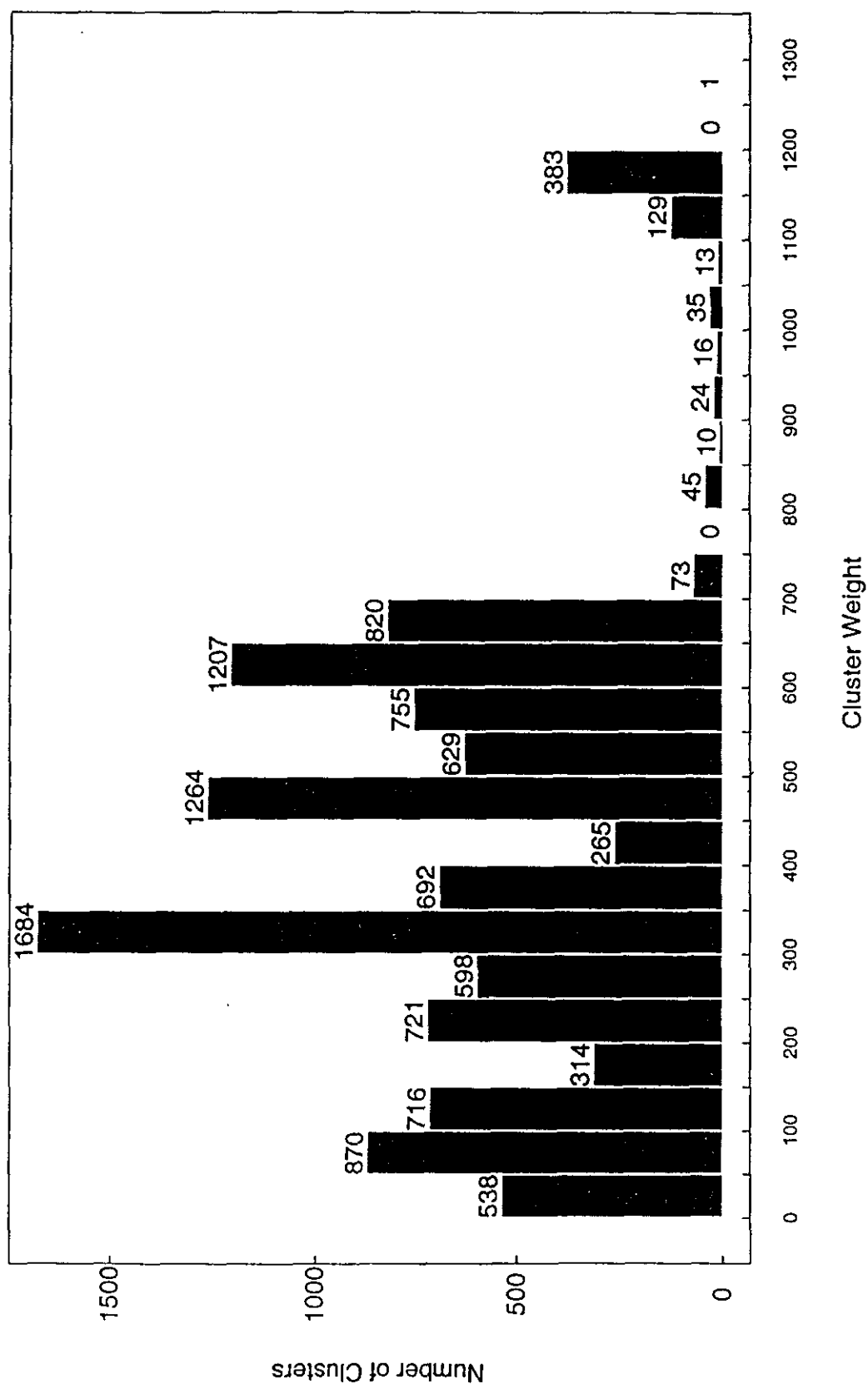


Figure 3. Distribution of A.C.E. Housing Unit Weights

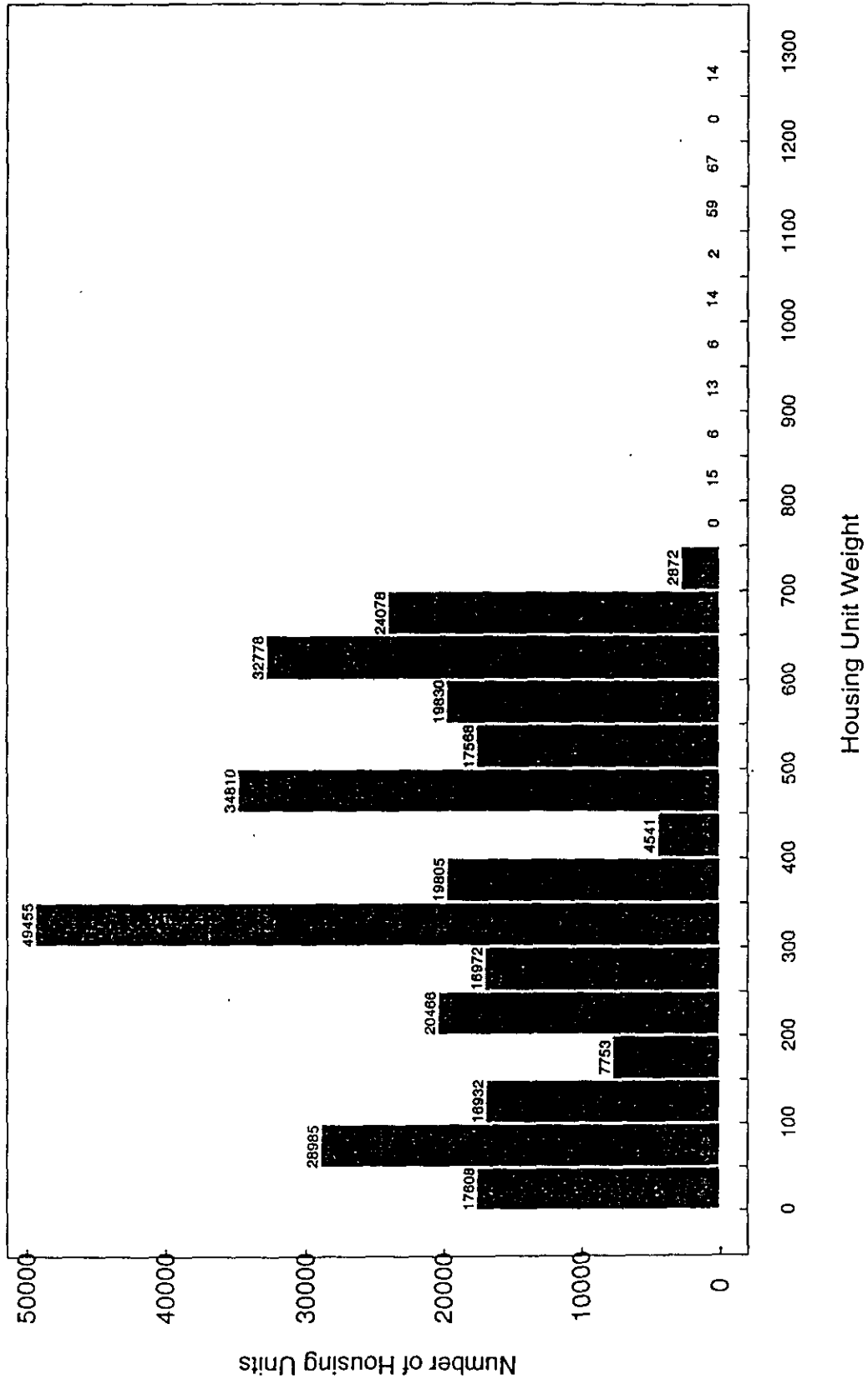


Figure 4. A.C.E. Cluster Weights by Sampling Stratum

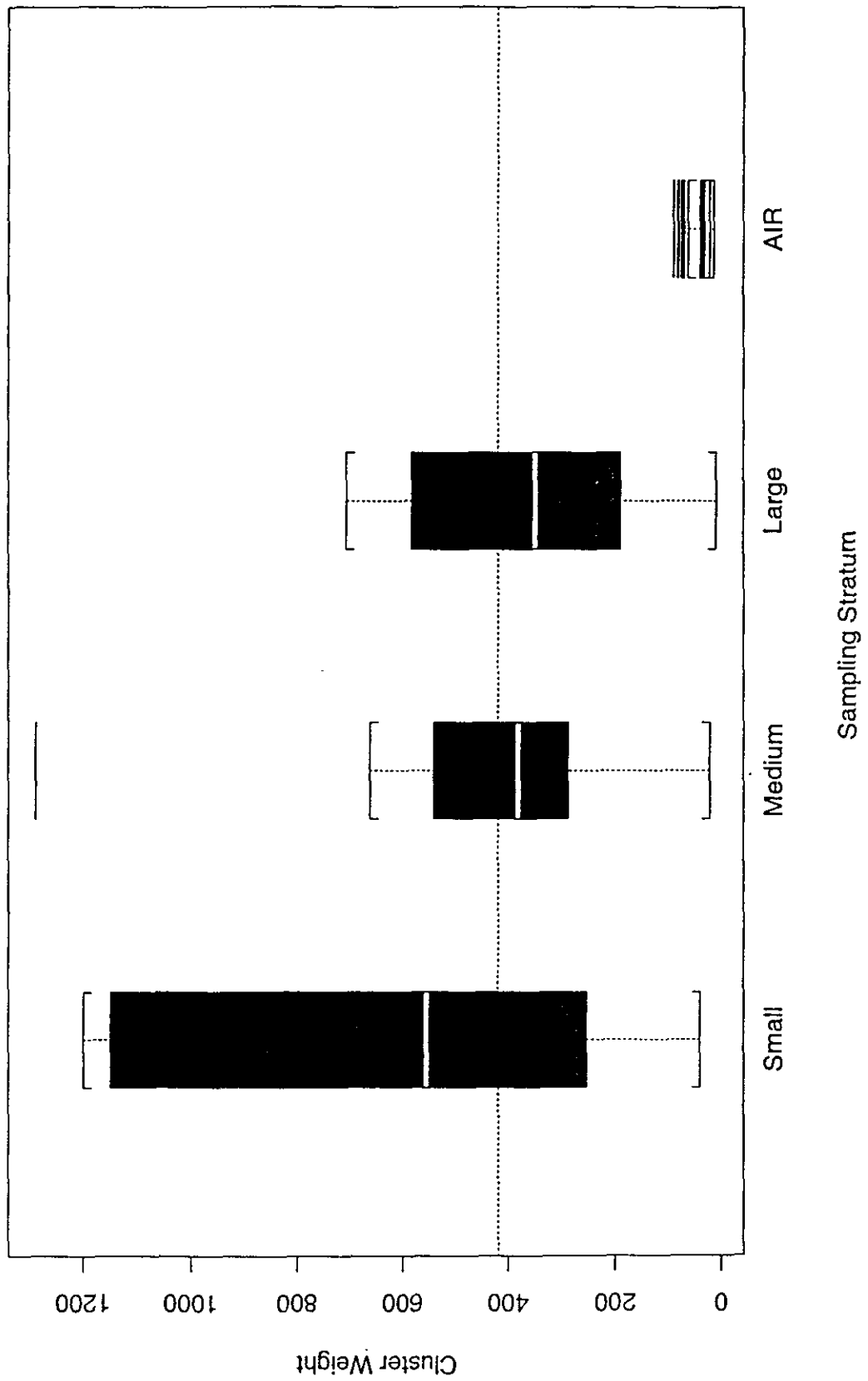


Figure 5. A.C.E. Small Cluster Weights by State

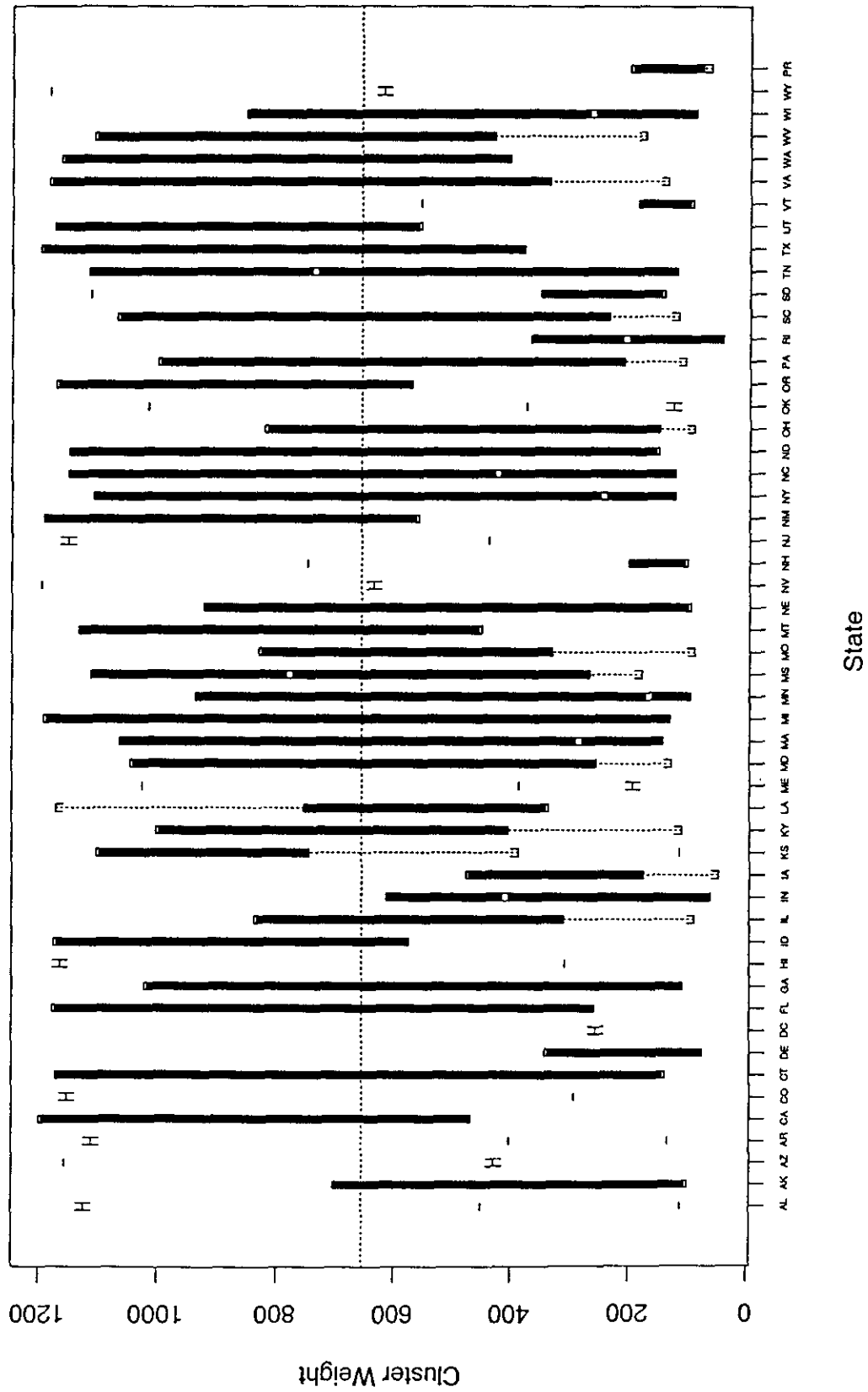


Figure 6. A.C.E. Medium Cluster Weights by State

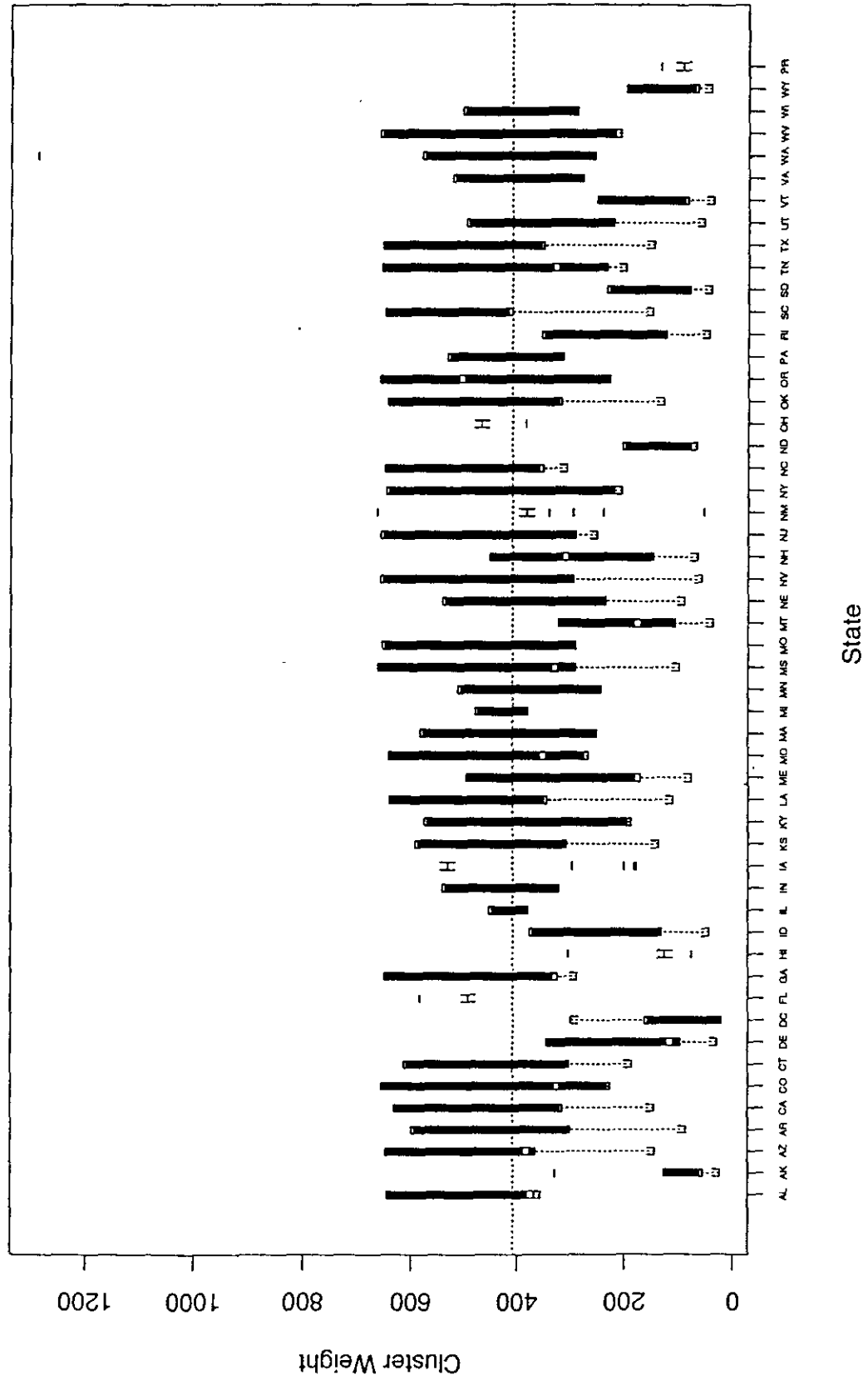


Figure 7. A.C.E. Large Cluster Weights by State

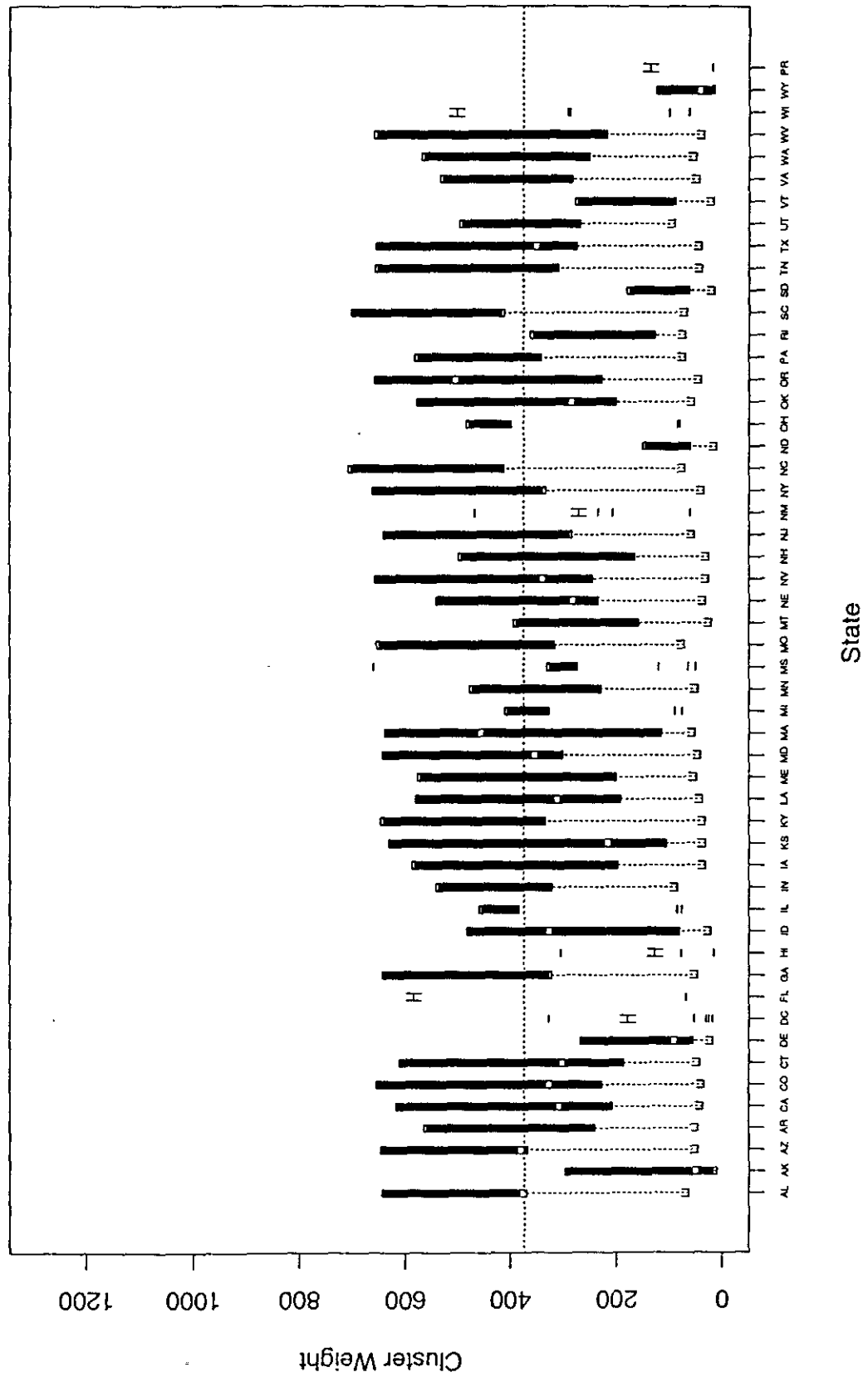


Table 2. Medium and Large Block Cluster Weights by Reduction Stratum
and Large Block Cluster Subsampling Stratum

State	Medium LBCS			Medium Not LBCS			Large LBCS			Large Not LBCS		
	I High	SJ	SJ	Min	I Low	Con	I High	Min	I Low	Con	I High	Min
Alabama	375.33			367.42	375.14	643.85	356.39	367.81	375.04	643.74	355.49	61.88
Alaska	115.57	24.40		56.12	109.80	329.40	128.10	50.59		296.61	112.98	9.25
Arizona	381.77	142.87		365.75	380.99	846.87	342.89	365.78	380.54	846.61	342.67	48.24
Arkansas	196.62	87.20		300.34	203.46	598.90	209.27	277.32		563.56	201.10	61.17
California	207.20	144.67		314.21	211.71	630.83	207.73	307.57	207.23	617.42	203.27	53.64
Colorado	232.40			325.86	225.95	655.49	232.40	326.54	226.37	655.17	231.90	48.54
Connecticut	188.01			301.84	184.88	611.63	188.65	301.63	184.83	611.45	188.73	58.33
Delaware	85.31	29.11		116.44	97.04	345.17	110.62	89.77	74.51	267.08	85.38	16.97
District of C	96.57	22.18		162.67	88.73	239.45	22.18	177.61		326.60	23.90	29.41
Florida	582.28			491.10	491.10	491.10	491.10	582.43	582.52	582.51	582.60	66.66
Georgia	324.85	287.13		324.35	328.15	649.82	315.85	321.06	324.51	642.92	312.18	46.95
Hawaii	75.80			125.61	75.80	303.20		125.63	75.66	303.38	75.77	14.40
Idaho	168.77	43.83		131.49	125.23	376.33	131.49	93.91	163.05	482.30	169.24	20.64
Illinois				378.75	378.75	451.51	378.75	383.13	383.01	457.19	382.08	74.92
Indiana		321.03		321.03	321.03	541.07	321.03	320.46	320.95	541.21	320.80	83.42
Iowa	198.94			295.20	180.40	529.91	177.12	328.73	201.66	585.41	195.26	30.15
Kansas	220.22	136.38		306.86	204.58	591.00	197.00	329.39	220.43	630.70	211.12	47.52
Kentucky	220.61			297.29	193.19	573.59	186.53	332.93	218.43	645.04	208.83	46.81
Louisiana	199.19	110.53		344.14	210.00	640.50	221.06	310.25	188.89	578.50	198.74	59.30
Maine		76.08		76.08	173.91	494.55	170.07			575.28	198.71	47.64
Maryland	352.16			351.86	274.16	641.05	266.10	352.03	298.61	641.04	290.60	50.88
Massachusetts	273.89			249.46	249.46	581.07	249.46	249.07	273.43	637.13	273.48	50.35
Michigan		379.94		379.94	379.94	477.30	379.94	325.07		408.23	325.71	74.10
Minnesota		241.75		241.75	241.75	509.72	241.75	228.85	227.62	475.70	222.07	45.24
Mississippi	289.45	98.65		328.84	225.49	680.55	239.59	328.09	271.95	658.34	287.78	62.98
Missouri	314.80			288.57	288.57	652.42	288.57	314.80		652.43	314.77	69.36
Montana		36.01		180.03	99.02	321.39	105.90	144.39	156.04	392.00	167.60	18.93
Nebraska	311.15	89.54		232.80	179.08	539.87	194.00	232.32	281.94	540.77		35.14
Nevada	293.14	56.47		338.80	254.10	655.01	263.51	338.42	242.79	655.49	262.54	24.83
New Hampshire				65.09	151.89	450.00	146.46		169.21	496.44	162.32	
New Jersey	288.86	248.61		287.86	290.05	654.24	295.22	281.46	284.04	639.63	287.78	53.18
New Mexico	53.43			381.66	293.88	661.23	338.41	268.90	204.71	465.02	231.87	58.44
New York	332.21	203.11		324.01	217.28	644.39	213.80	332.04	222.06	660.41	219.05	49.35
North Carolina	383.48	305.31		350.78	352.28	647.53	343.47	409.29	382.72	705.26	373.33	68.13
North Dakota				91.15	78.13	201.33	66.11	67.96	58.29	148.34		9.44
Ohio		381.75		381.75	381.75	465.12	381.75	395.54	399.33	481.90	395.52	77.63
Oklahoma	199.27	127.02		315.93	211.70	641.46	222.29	283.33	188.79	575.80	198.90	51.58
Oregon	229.64			347.89	229.38	656.02	224.79	347.12	229.28	655.96	224.43	
Pennsylvania	339.63	310.91		310.91	310.91	529.03	310.91	339.70	339.81	578.58	339.27	66.91
Rhode Island	132.10	43.12		122.17	110.87	351.84	129.35	124.52	114.22	359.81		87.25
South Carolina	408.79	147.28		409.62	409.11	647.14	399.76	408.96	408.80	700.29	394.41	65.49
South Dakota	61.49	39.57		128.60	69.25	230.44	79.14	98.18	52.43	177.25	60.59	12.98
Tennessee	313.77	195.73		323.22	231.32	653.55	225.85	326.65	312.96	653.62	305.62	55.04
Texas	272.79	144.69		347.97	271.29	650.58	272.01	349.02	272.05	652.75	272.77	48.25
Utah	265.56	53.66		268.30	169.92	494.44	150.25	264.53	265.25	493.98	235.65	
Vermont				35.25	77.55	248.42	82.94		86.41	275.63	92.02	15.07
Virginia		275.31		275.31	275.31	520.44	275.31	280.33	280.01	530.07	279.91	42.15
Washington	1288.36			252.64	252.64	577.47	252.64	246.07	248.28	566.52	247.80	48.59
West Virginia	216.05			380.24	217.28	656.37	206.42	374.00	215.75	655.79	206.20	32.62
Wisconsin		285.07		285.07	285.07	499.60	285.07	285.24	287.86	499.58	289.90	61.95
Wyoming	41.25			96.58	61.81	195.91	65.81	32.85	38.51	122.23	40.67	14.85

See Notes describing table on next page.

Notes Describing Table 2

	=	Not Applicable
Min	=	Clusters with high concentrations of minorities
I Low	=	Clusters where the Preliminary Independent Listing housing unit count is at least 25 percent lower than the Decennial Master Address File (DMAF) count
I High	=	Clusters where the Preliminary Independent Listing count is at least 25 percent higher than the DMAF
Con	=	Clusters where the Preliminary Independent Listing count and the DMAF do not differ by more than 25 percent
SJ	=	Clusters initially classified as Medium for listing sample selection that have 80 or more Preliminary Independent List housing units
LBCS	=	Clusters that went through large block cluster subsampling
Not LBCS	=	Clusters that did not go through large block cluster subsampling
Medium	=	Clusters initially classified as Medium for listing sample selection
Large	=	Clusters initially classified as Large for listing sample selection

Table 3. Small Block Clusters Weights by Reduction Stratum
and Small Block Cluster Subsampling Stratum

State	Stratum 01	Stratum 02	Stratum 03	Stratum 04-09	Stratum 04 SJ LBCS
Alabama	1122.93	449.17	.	112.29	.
Alaska	702.80	200.80	.	100.40	.
Arizona	1156.48	.	428.33	428.33	.
Arkansas	1110.54	401.40	133.80	.	.
California	1199.48	466.91	466.91	466.91	.
Colorado	1152.59	291.80	291.80	.	.
Connecticut	1171.73	.	137.85	137.85	.
Delaware	342.00	76.00	.	.	.
District of Columbia	254.00
Florida	1177.06	386.22	257.48	257.48	.
Georgia	1021.63	400.33	218.36	109.18	.
Hawaii	1163.37	.	306.15	.	.
Idaho	1174.69	.	.	573.69	.
Illinois	836.31	308.11	176.06	88.03	.
Indiana	611.43	203.81	91.71	61.14	.
Iowa	474.97	174.15	94.99	47.50	.
Kansas	1102.19	385.45	.	113.37	.
Kentucky	1002.51	403.45	220.06	110.03	.
Louisiana	1170.94	334.55	.	334.55	.
Maine	1024.84	384.32	.	192.16	.
Maryland	1044.54	253.22	.	126.61	.
Massachusetts	1062.83	425.13	.	141.71	.
Michigan	1192.49	455.32	130.09	130.09	.
Minnesota	935.47	377.33	165.08	94.33	.
Mississippi	1112.14	441.33	264.80	176.53	.
Missouri	828.45	328.17	87.51	87.51	314.40
Montana	1131.89	447.49	.	447.49	.
Nebraska	921.98	328.16	93.76	93.76	.
Nevada	1194.27	.	.	632.26	.
New Hampshire	746.40	199.04	.	99.52	.
New Jersey	1150.66	435.38	.	.	.
New Mexico	1190.83	555.72	.	555.72	.
New York	1106.79	392.41	241.48	120.74	241.48
North Carolina	1149.06	419.66	239.80	119.90	239.80
North Dakota	1148.22	370.39	.	148.16	.
Ohio	819.82	354.52	147.71	88.63	.
Oklahoma	1014.26	371.07	.	123.69	.
Oregon	1171.69	568.09	568.09	568.09	.
Pennsylvania	998.78	409.76	204.88	102.44	.
Rhode Island	364.95	40.55	40.55	.	.
South Carolina	1068.42	405.48	231.71	115.85	.
South Dakota	1112.00	347.50	.	139.00	.
Tennessee	1115.57	352.29	176.14	117.43	.
Texas	1196.52	450.26	375.21	375.21	500.29
Utah	1173.84	.	.	552.39	.
Vermont	552.57	184.19	92.10	92.10	.
Virginia	1182.79	332.24	265.80	132.90	.
Washington	1162.66	400.26	.	400.26	.
West Virginia	1106.13	425.43	170.17	.	.
Wisconsin	850.62	260.39	173.60	86.80	.
Wyoming	1182.96	.	.	617.19	.

Note:

Stratum 01	=	Small Block Clusters with 0-2 Housing Units
Stratum 02	=	Small Block Clusters with 3-5 Housing Units
Stratum 03	=	Small Block Clusters with 6-9 Housing Units
Stratum 04-09	=	Small Block Clusters with 10 or more housing units, in List/Enumerate areas, in American Indian Reservations, or in other American Indian Country
Stratum 04 SJ LBCS	=	Clusters initially classified as small for listing sample selection, which then became small stratum jumpers because the preliminary enhanced list had 80 or more housing units in these clusters. Only small clusters in this stratum went through large block cluster subsampling.

Figure 8. A.C.E. American Indian Reservation Cluster Weights by State

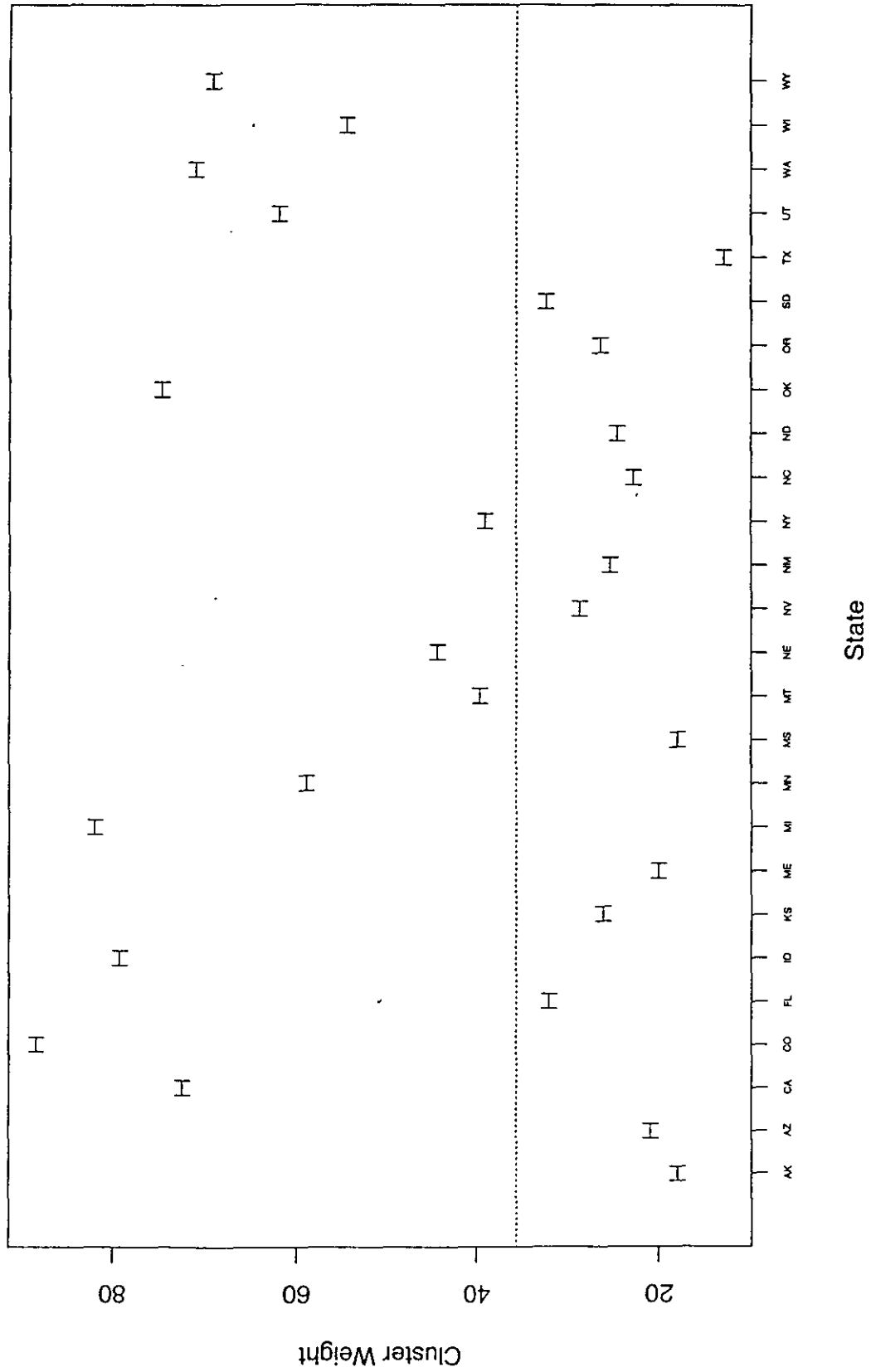


Table 4. Summary of the Weights from AIR Block Clusters

State	Small	Med. Large
Alaska	.	18.00
Arizona	428.33	20.85
California	466.91	72.36
Colorado	291.80	88.50
Florida	.	32.00
Idaho	573.69	79.17
Iowa	47.50	.
Kansas	.	26.00
Maine	.	20.00
Michigan	130.09	82.00
Minnesota	94.33	58.90
Mississippi	.	18.00
Montana	447.49	39.63
Nebraska	93.76	44.33
Nevada	632.26	28.60
New Mexico	555.72	25.27
New York	120.74	39.00
North Carolina	.	22.75
North Dakota	148.16	24.50
Oklahoma	123.69	74.63
Oregon	568.09	26.33
South Dakota	139.00	32.26
Texas	.	13.00
Utah	552.39	61.86
Washington	400.26	71.00
Wisconsin	86.80	54.40
Wyoming	617.19	69.00

Table 5. Summary of the Weights from PR Block Clusters

State	Small 0-2	Small 3-5	Small 6+	Medium Not LBCS	Medium LBCS	Large Not LBCS	Large LBCS
Puerto Rico	197.55	75.53	60.43	92.63	132.89	16.56	132.84

Notes:

Small 0-2	=	Clusters initially classified as Small for listing sample selection that have 0-2 Independent List housing units
Small 3-5	=	Clusters initially classified as Small for listing sample selection that have 3-5 Independent List housing units
Small 6+	=	Clusters initially classified as Small for listing sample selection that have more than six Independent List housing units
Medium	=	Clusters initially classified as Medium for listing sample selection
Large	=	Clusters initially classified as Large for listing sample selection
Not LBCS	=	Clusters that did not go through large block cluster subsampling
LBCS	=	Clusters that went through large block cluster subsampling

Figure 9. A.C.E. Cluster Weights by State

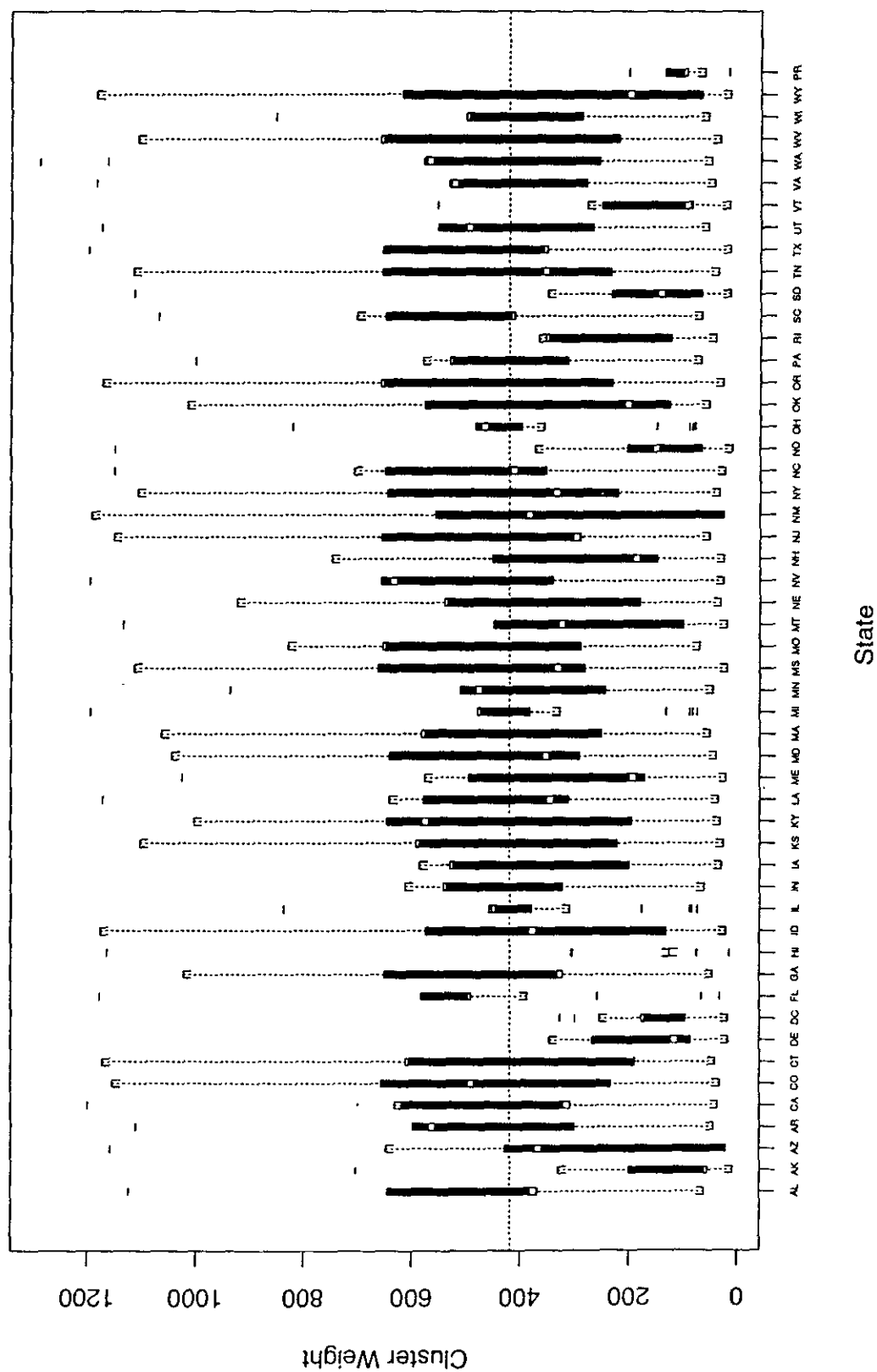


Figure 10. A.C.E. Medium and Large Cluster Weights
by Major Reduction Stratum

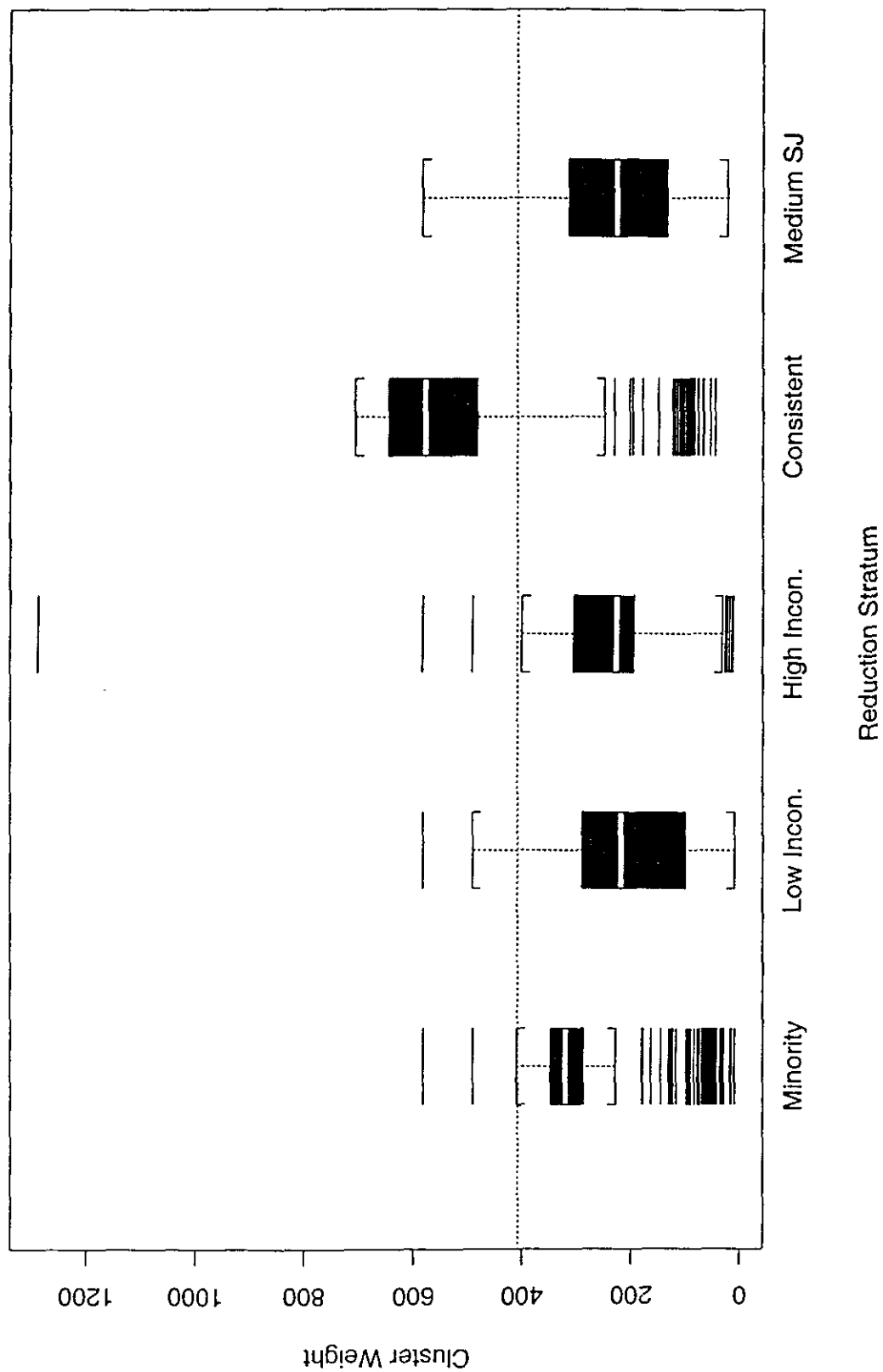


Table 6. Distribution of Clusters and Interview HUs
by Major Type of Enumeration Area Group

Major Type of Enumeration Area	Clusters	Interview HUs
Block Canvassing	7,799	236,098
Address Listing	3,084	61,734
List/Enumerate	420	3,081
Total for US	11,303	300,913
	=====	=====
Puerto Rico	499	13,736
	=====	=====
Grand Total	11,802	314,649

Notes:

Block Canvassing includes Type of Enumeration Area Codes 1, 6, 7, and 8.

Address Listing includes Type of Enumeration Area Codes 2, 5, and 9.

List/Enumerate includes Type of Enumeration Area Code 3.

Puerto Rico is entirely in the Address Listing Major Type of Enumeration Area but is not included in the Address Listing numbers.

Figure 11. A.C.E. Cluster Weights by Major Type of Enumeration Area

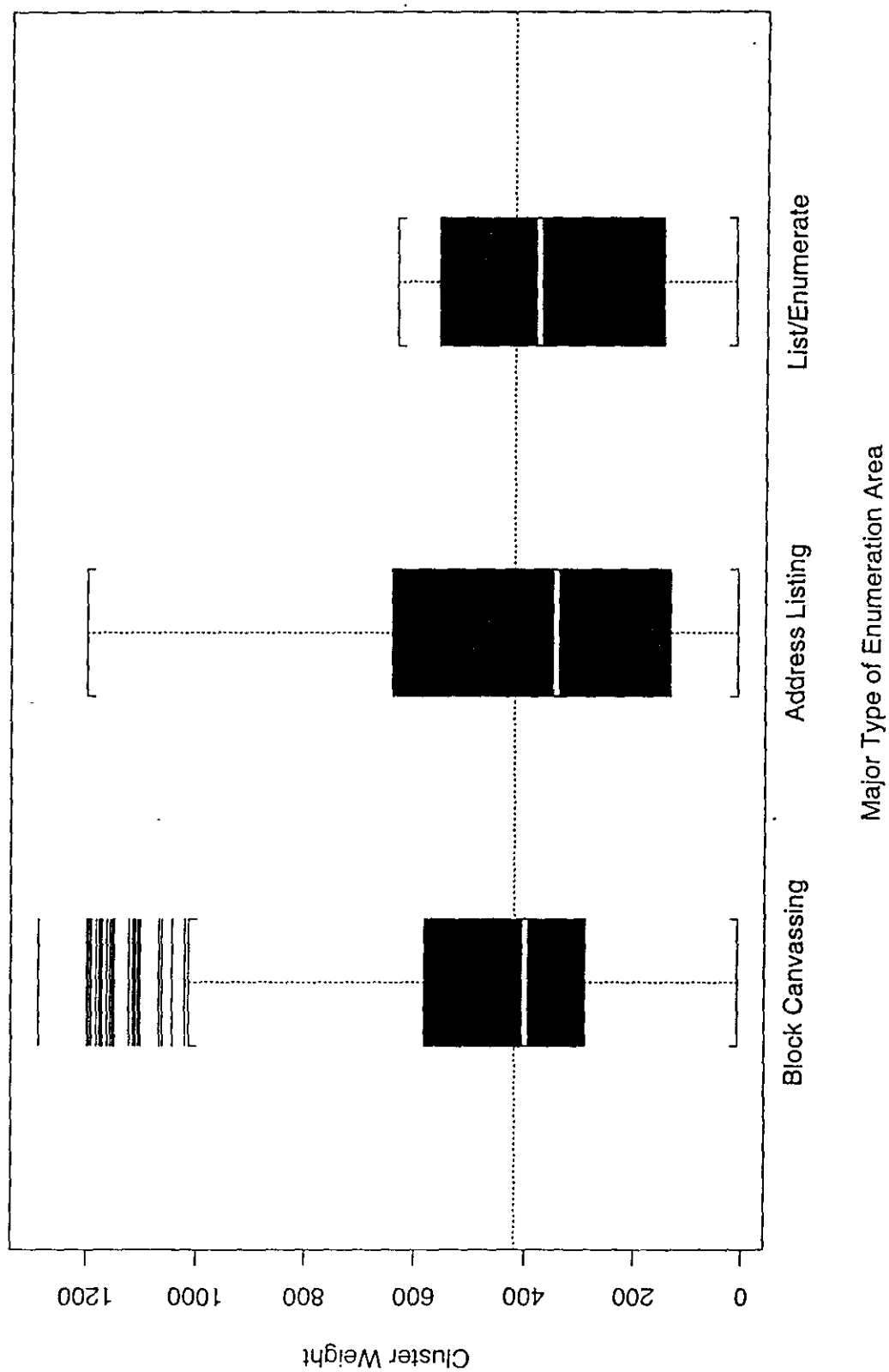


Table 7. Distribution of Clusters and Interview HUs
by A.C.E. Regional Office

ACERO	ACERO Name	Clusters	Interview HUs
21	Boston	1,411	37,240
22	New York	498	17,434
23	Philadelphia	827	24,558
24	Detroit	801	23,199
25	Chicago	825	23,819
26	Kansas City	970	22,702
27	Seattle	946	24,050
28	Charlotte	1,041	29,027
29	Atlanta	970	27,466
30	Dallas	1,116	27,713
31	Denver	1,543	31,048
32	Los Angeles	854	26,393
		=====	=====
	Total	11,802	314,649

Note: Puerto Rico is included in the Boston ACERO.